

Florida Paleontological Society, Inc.
Newsletter



Volume 12 Number 2 Spring Quarter 1995

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FPS Fall Meeting October 28-29

Wakulla Springs, Florida
St. Marks National Wildlife Refuge

- ★ Pre-meeting collecting trip at the Mayo quarry
- ★ Talks and Banquet Dinner at Wakulla Springs Lodge
- ★ Annual Fossil Auction
- ★ Special Butterfly Migration-Watching Trip to St. Marks

See information and reservation form inside, p. 12-15!



Letters To The Editor

Editor's note: *Perhaps the overflowing mailbag clip art is misleading. Actually, we get feedback from our readers so infrequently that we get excited when somebody does take the time to write us. Since we've recently received several letters on various topics, we have devoted a special section to them. This new "Letters to the Editor" column will appear on an "as needed" basis. It will hopefully offer a means of presenting suggestions and ideas on bettering the society. It may also serve as a forum for exchange of ideas on paleontological issues.*

Dear Sir or Madam:

I would like to offer some suggestions for future articles in the Newsletter.

1) More articles on particular localities and significant finds. Please do an article about the progress of Don Serbosek's project of casting and mounting of the American Mastodon skeleton "Priscilla" brought up from the Little River back in the 1960s.

A couple of years ago I viewed a segment on the Florida News Network concerning it. It looked tremendous. From what I heard, not only is it one of the more complete finds, but also one of the largest individual specimens ever found based on the length of the thoracic vertebrae. Please publish various photos of its assembly over time. Where will this be on display when finished? In his dive shop or a museum in Ormond Beach? Is just one cast being made? Has there been any scientific papers published concerning it?

2) I would like to see interviews of various people. A good interview would probably be Robert Allen, free lance articulator of bones who I heard has been hired to mount the Aucilla River mammoth for the new Florida N.H. Museum. Where does one go to school to learn to mount a proboscidean or sauropod anyway? What museums display his work?

Russ McCarty, in the Fall 1994 Newsletter, page 8, states "Oh!...the stories those older collectors can tell" concerning proboscidean skeletons in the rivers, untouched, unpicked over as recently as the 1960s. I would like to hear some of their stories. Please find them and interview them if you can. When did snorkeling and SCUBA become popular, 1950s?

In the book *A Pictorial Guide to Fossils*, by G.R. Case (1982), on page 459, there is a very interesting photo of a mammoth skeleton; the caption reads it was excavated by Mr. Mitchell Hope, scoutmaster. He and his Boy Scout Troop excavated it near the Peace River above Wachula Springs. What is the story behind this and the year discovered? I noticed Mitchell Hope is still a member of the FPS out of Nakomis. Please contact him and ask him to write an account for the Newsletter.

3) Please do a yearly listing of all publications concerning Florida paleontology. Not just technical papers, but any popular articles, newspaper items, or TV shows spot-lighting Florida fossil discoveries over the course of the year. The recent Leisey volume mentioned in the text of a paper by Dr. G. Edmund et al. concerning the Daytona Beach bonebed locality and the *Eremotherium* mass death site - where will it be published?

4) A listing of all the museums and public displays of fossils in Florida, starting with some of the lesser known museums. A mention of their more interesting displays, locality and date collected of significant specimens. Maybe reader feedback could greatly expand the listing (by sending in brochures, articles, etc.). Florida museums have been almost completely ignored in a spate of recent dinosaur and prehistoric animal tour guide books.

Also, an article about Florida fossil specimens on display in out of state museums such as the giant *Eremotherium* skeleton mount at the Royal Ontario Museum. Similarly, the type skull of *Mammuthus floridanus*, collected in 1929 near Bradenton, Florida, was for years on display in the Hall of the Age of Man at the American Museum of Natural History, but since the extensive renovations, I am not sure if it is anymore.

*Readers may be interested in a recent paper by Steve Emslie and G. Morgan entitled *Taphonomy of a Late Pleistocene Carnivore Den, Dade County*, about the Cutler Hammock site. It appears in the Paul S. Martin Symposium Volume, *Late Quaternary Environments and Deep History*, pages 65-83, D. Steadman and J. Mead (eds.). The volume is available by mail from the Hot Springs, South Dakota, Mammoth Site bookstore, phone (605) 745-6017. Price is \$15 plus \$5 postage.

5) How about a few transcriptions of the talks from the Fall Meetings to share with a wider audience? I would have liked to be able to attend but could not. I would particularly like to hear about the Aucilla River Project.

6) I am not sure if it is in the works, but why not a "Best of the Plaster Jacket" reprinting of some of the various articles published over the years? Last year I tried to get a few articles from years past through Interlibrary Loan at my local Public Library, but they were unable to obtain any.

Thank you.

Sincerely,

K.C. Cornish
Scottsbluff, NE

Editors note: *Two of Mr. Cornish's suggestions, regarding the Leisey volume (see ad in this issue) and past articles from the Plaster Jacket, are already covered. A volume based on the Plaster Jacket is currently in the works. Many of the other ideas in the letter are things that our members could certainly help with. Because of the time constraints on our all-volunteer editors, help from others is likely the only way these ideas will become reality. How about it? Maybe the specific individuals mentioned above would provide us their stories. If anyone would like to try their hand at writing we would be happy to receive your submissions.*

More About "The One That Got Away"

I am pleased that my previous note prompted thoughtful discussion among many of our members about fossil acquisition policies. Our editor deserves great credit for providing a forum for these vital issues. The fate of Florida fossils affects all of us, amateurs and professionals alike, now and in future generations. Let me comment on Dr. Hubbell's letter from the previous newsletter issue and also introduce a letter (attached) from two of our society's most distinguished long-term members.

Gordon Hubbell wisely and generously urges us all to work together to save our fossil heritage. He conceives of a wonderful world in which private and professional collections all share a common purpose of advancing the science of paleontology. I deeply respect this view, because I know Dr. Hubbell himself exemplifies such pure motives. Many paleontologists (myself included) have enjoyed his hospitality and sharing the insights and specimens that he has amassed in his collection of fossil and recent sharks.

Bill and Lelia Brayfield also represent private collectors of immense experience and published sophistication (We proudly note their receipt of the Catherine T. Palmer Award from the Paleontological Research Institute in Ithaca, New York). They were not so happy when a critical Florida specimen ended up in Japan; indeed they did all they could to keep it here. I only wish they had collected it instead of a person who cared only about its financial value. The Brayfields were generous enough to borrow it, make some excellent pictures of its parts, and provided the negatives to the Florida Museum of Natural History before it got away.

Ideally this "one that got away" should have been the type specimen of the new Florida genus *Pachyarmatherium*. I do not believe that the "commercial paleontologist" who carried this unique skeleton to Tucson and sold it to someone in Mexico, who in turn sold it to a prefectural museum in Japan, was working with the rest of us to advance Florida Paleontology. We professional paleontologists are not just crying "sour grapes": we have limped ahead and done the best we could in the Leisey volume. We certainly do appreciate the times when we do all work together, as illustrated by the rest of the Leisey volume.

S. David Webb
Curator of Paleontology
Florida Museum of Natural History
Gainesville, FL 32601

And the attached letter:

Dear Dave:

Just a note to comment on the small glyptodont you discussed in the Fall Quarter FPS Newsletter. The collector brought it to our lab soon after he found it. He thought it was an armadillo. We told him we thought it was a glyptodont rather than an armadillo, and we showed him some miniature glyptodont scutes we collected in Sarasota County. We told him that because of its importance it should be given to the Florida Museum. He said he was not giving it away, he wanted \$5000 for it.

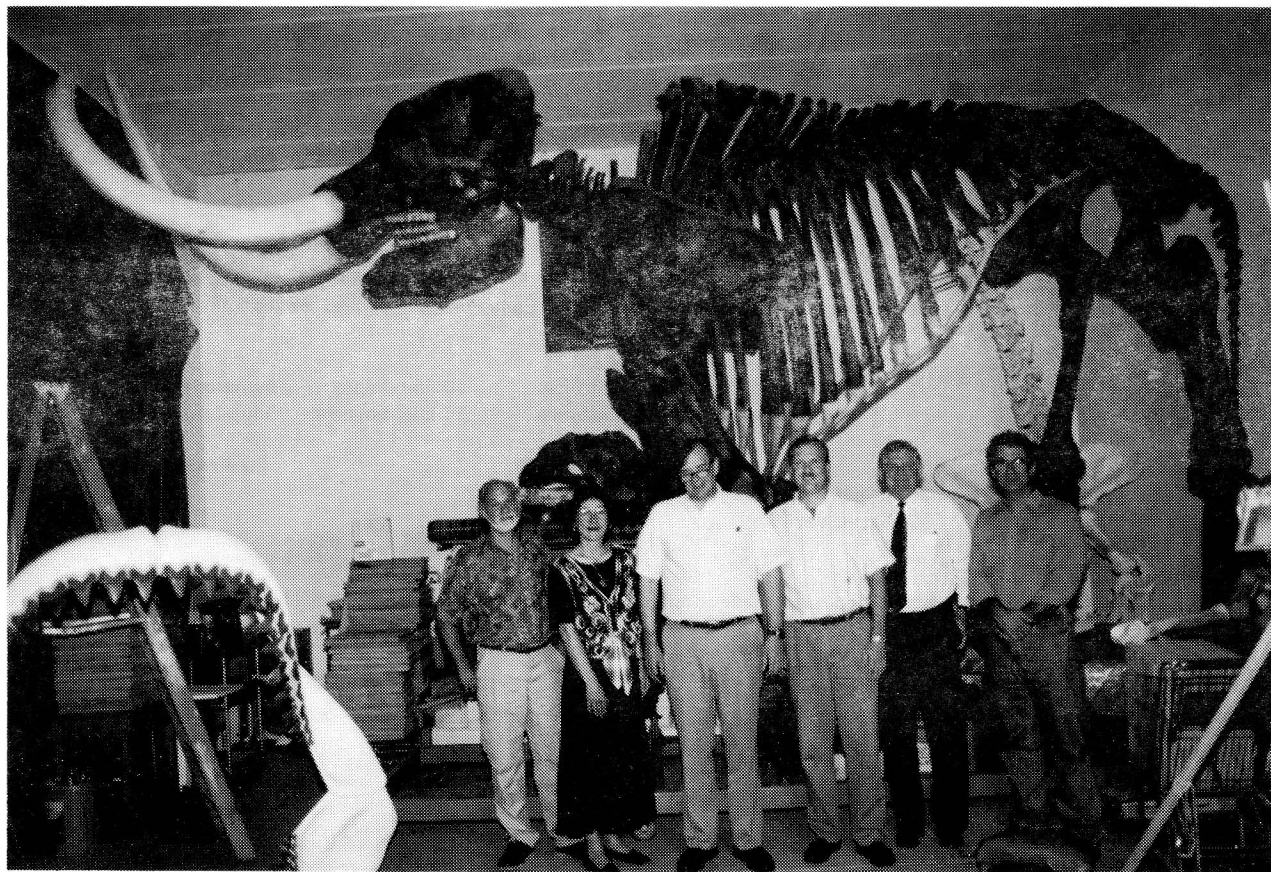
Letters to the Editor

He then left with the specimen. He returned in a few days and told us he was taking the animal to Arizona. We asked him if we could borrow the animal long enough to photograph it. He gave it to us for a week and we photographed all the bones and scutes to scale. Soon after that he took the bones to Arizona.

The specimen was found in Charlotte County in a pit just off of South Jones Loop Road where it overpasses I-75. Lelia and I had worked that same pit a number of times but no glyptodont. Unfortunately, we were in a different part of the pit. I can't help but wonder how many other important fossils have been lost to science in this same way. We hope you are happy, healthy, and hunting.

Best regards,

Bill and Lelia Brayfield
Woodstock Rd.
El Jobean, FL



Priscilla the mastodon and Florida Museum of Natural History group, 1994.

Now Available!

**Paleontology and Geology of the
Leisey Shell Pits,
Early Pleistocene of Florida**

Volume Editors:

**Richard C. Hulbert, Jr., Gary S. Morgan,
and S. David Webb**

Bulletin Editors:

F. Wayne King and Rhoda J. Bryant

For the last two decades the Leisey Shell Corporation has operated several pits along Tampa Bay. Draglines unearthed numerous invertebrate fossils and, occasionally, vertebrate fossils. The spoil piles and quarry walls were periodically explored by several avocational paleontologists. In 1983 a tremendous concentration of fossil bones was exposed. Quarrying in the area ceased, thanks to the cooperation of the owner, C.E. "Bud" Leisey, Jr., and manager, Eric Hunter. In 1984, after meetings among representatives of the Florida Museum of Natural History (FLMNH), Leisey Shell Corporation and avocational paleontologists, a major operation was planned. The owners subsequently transferred ownership of the fossils to FLMNH. That Spring major excavations resumed as a cooperative effort among the FLMNH, the Tampa Bay Mineral and Science Club, and the Leisey Shell Corporation. The dig has attracted the attention of local, state, and national news media, including a spot on NBC's "Today Show", an article in Newsweek magazine, and a lengthy Sunday feature in the Tampa Tribune.

This volume is printed in two parts, including twenty papers which cover birds, fishes, invertebrates, mammals, plants, and reptiles and amphibians, as well as the taphonomy of terrestrial mammals and geology of this Early Pleistocene site. Several new species are described.

Bibliographic Data

1995 Volume 37, Part I	352 pages	21 halftones	40 line diagrams	numerous tables
1995 Volume 37, Part II	324 pages	40 halftones	26 line diagrams	numerous tables

Price (in paperback):

FPS Members	\$25.00 per set (sold in sets only)
Others	\$30.00 per set

Publication Date: March 1995

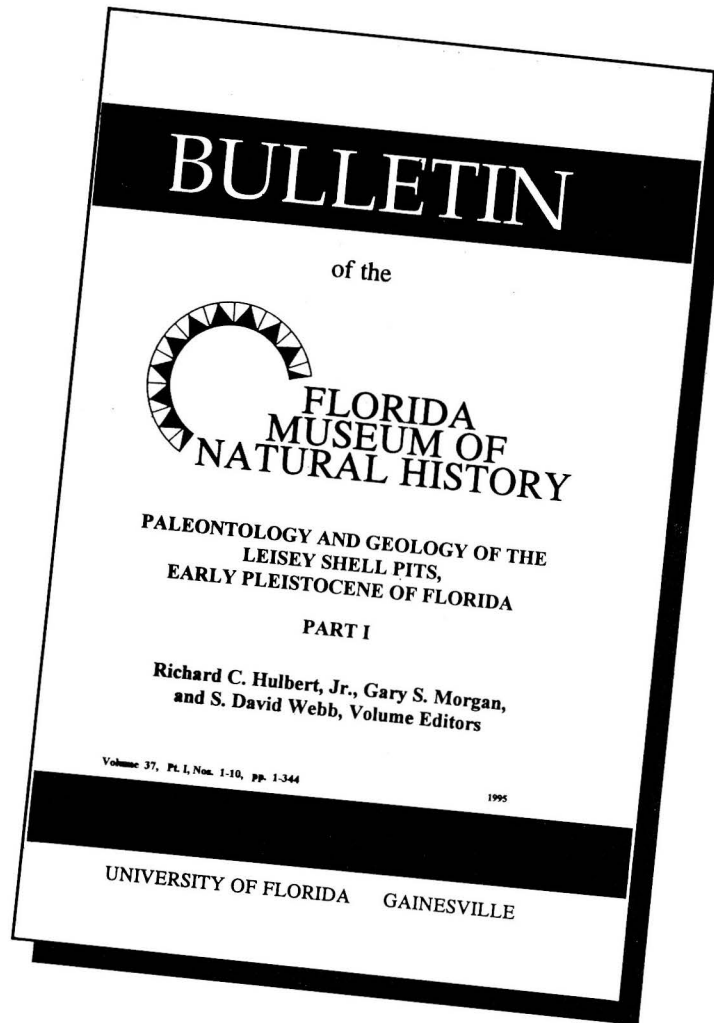
Readership

Avocational researchers, graduate students and professionals in the fields of invertebrate and vertebrate paleontology, paleobotany, zoology, geology.

FPS Members may order this set for \$25.00 plus \$3.00 shipping and handling. Please indicate the number of copies desired, and include your name and complete mailing address with your order. Make check or money order payable to Florida Paleontological Society, and mail to:

**Phil Whisler, Treasurer
Florida Paleontological Society
Florida Museum of Natural History
University of Florida
Gainesville, FL 32611**

**Non-Members may order this set for \$30.00 plus \$3.00
S & H from: Managing Editor
Bulletin of the FLMNH
P.O. Box 117800
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News Notes...

by Frank Rupert

Fall Meeting Plans in place...

Be sure and mark your calendars for the FPS Fall meeting, to be held this October 28 and 29 at Wakulla Springs. If you plan to attend, please return the enclosed registration form by September 12, 1995.

Gary S. Morgan Student Research Award...

Last year the membership voted to name the FPS's annual student research award after Gary Morgan, former collection manager of the vertebrate paleontology collection at the FLMNH. Gary is currently working out west, and has been sorely missed at the Museum.

This year's award winner is F. Glynn Hayes, a Master's student of Dr. Dave Webb's at the University of Florida. Glynn is studying the rich vertebrate fossil locality in the Florida Rock Industries pit near Brooksville. Clay fill from fissures in the limestone has yielded the most diverse record of the earliest Florida land mammals, thought to be of Arikarean age (24 mya). This deposit is comparable to the upper beds of the White River Badlands in Nebraska and South Dakota and the John Day Fossil Beds of Oregon. Some of the finds to date include *Miohippus*, a 3-foot horse, *Daphoenus* (a wolf-sized dog), *Leptemeryx* (a small deer-like animal), a new species of weasel, at least 12 species of rodent (some new), new bats, an early camel, and several reptiles. Many are the only known representatives found east of the Mississippi.

Glynn plans to use the \$500 award for field and laboratory supplies and miscellaneous research expenses. We hope to see a more detailed account of this fascinating discovery in a future newsletter of FPS talk.

A new arrival for the Portell's....

Congratulations to Roger Portell on the birth of his daughter **Jennifer**. While it may be too early to tell if

she will become a budding fossil enthusiast, we trust Roger will make every attempt to nurture this instinct. Maybe he'll bring her to the FPS meetings and show her off!

Book Bits

Roger Portell reports that the next *Papers in Florida Paleontology* entitled ***The Tucker Borrow Pit, An Early Pleistocene Fossil Site in Brevard County, Florida***, by Gary S. Morgan and Roger W. Portell, is nearing completion. It will be going to press shortly after final review. Also, Dr. Steven Manchester's ***Fossil Woods of Florida*** is currently in progress, and we hope to see it complete in the not too distant future.

Book Review (continued from last Issue)

Paleontology and Geology of the Leisey Shell Pits, Early Pleistocene of Florida, volume 37, part II, Nos. 11-20, pp. 345-660, Bulletin of the Florida Museum of Natural History, 1995. Richard C. Hulbert, Jr., Gary S. Morgan, and S. David Webb, Volume editors.

In a previous newsletter, Part I of the long-awaited report by the scientific community on the early Pleistocene (Irvingtonian) Leisey bone bed was reviewed. That volume included an introductory overview of land mammal sites from around Florida from the first discoveries shortly after the turn of the century, discussions of the invertebrate paleontology, palynology, stratigraphy of the Leisey sites and articles on the lower vertebrates and bird fossils found there.

Part II is for the bone freaks. It includes articles on perhaps the richest deposit of Pleistocene megafauna ever discovered in the eastern United States, both in terms of numbers and in the diversity of the species involved. Despite some weaknesses in individual cases, the ten papers presented in Part II

should form an indispensable part of any Florida-based paleontologist's library.

Perhaps the most interesting two articles in Part II are the first two in the volume. In these, H. Gregory McDonald discusses the gravigrade xenarthrans (ground sloths) from Leisey and Kevin F. Downing and Richard White write on the cingulate xenarthrans (armadillos, pampatheres and glyptodonts). These articles are important and interesting primarily because of the new genus of armadillo *Pachyarmatherium leisyi* that is described here. This little critter looks like a cross between a glyptodont and an armadillo and is characterized by its thick scutes and lack of movable plates (a feature unique among North American armadillos). This interesting addition to the faunal list involved in the Great American Interchange has now been identified from several localities, including one in South Carolina. Additional material is badly needed for comparative and distributional purposes. This is also the creature that was the subject of the piece by Dr. David Webb a couple of issues ago.

Another interesting article included in Part II deals with the fossil carnivores from Leisey. Some of the most complete and diverse material from the early Pleistocene was found here, including three canines, a bear, a racoon, three mustelids, four cats and a seal! Anyone with an interest in fossil carnivores should not miss this portion of the work.

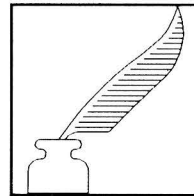
Two excellent articles by Richard Hulbert, Jr., on the giant tapir *Tapirus haysii* and on *Equus* from Leisey and other Irvingtonian localities in Florida were initially spoiled by very poorly reproduced photographs of specimens. This fault was recognized and errata sheets were prepared with much better picture quality. If you own a copy of this work and have not received your errata sheets, inform the Florida Museum of Natural History or (if purchased through the FPS) let Phil Whisler know.

Perhaps the most disappointing article in the entire Leisey volume is the final work by David Webb and Joseph P. Dudley on the Proboscidea from the Leisey shell pits. As almost anyone who dug there as an avocational paleontologist knows, elephantine material was everywhere common and very well

preserved, with significant numbers of complete mandibles found right up through the final closure of the pits in late 1984. The work presented here on these wonderful creatures is very disappointing and not very informative in scope. It is too bad from the non-scientist's point of view that this occurred, but perhaps the overall size of the work got to be so large as to mandate cuts somewhere, and the elephants suffered as a result.

My overall impression of the entire 660 page Leisey volume is that of great satisfaction. The long wait was justified by the overall high quality of the work and its great usefulness to even a beginner in this wonder-filled field! Don't miss the opportunity to add these volumes to your collection.

Eric Taylor



From the Secretary...

by Eric Taylor

A computer breakdown (actually, it is suffering from a massive overdose of caffeine caused when I dumped a complete mug of coffee on it!) greatly limits my input to the membership in this issue. The records of membership will be back on line in a week or so, but there isn't much I can accomplish right at this time!

Congratulations to Glynn Hayes from the University of Florida for being named the winner of the Gary S. Morgan scholarship for this year! Glynn is working on a newly discovered Oligocene site in a limerock rock mine near Brooksville. The site contains lots of land animal remains and is expected to add significantly to our understanding of this poorly represented time in Florida prehistory.

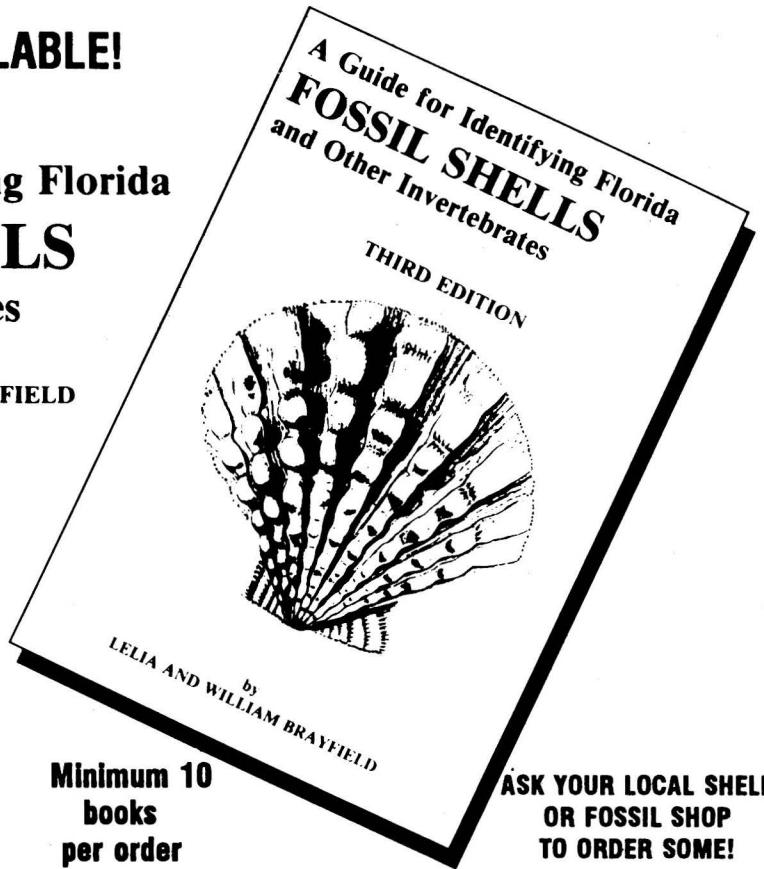
If you have not paid your 1995 dues, you may still get a copy of this newsletter because of the above referenced computer problem. Please send 'em in immediately.

New Edition!

NOW AVAILABLE!

**A Guide for Identifying Florida
FOSSIL SHELLS
and Other Invertebrates**

by
LELIA AND WILLIAM BRAYFIELD



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SHIPPING AND HANDLING (Based on charges at time of shipping) _____

**TERMS: 30 DAYS NET FROM DATE OF BILLING
MINIMUM 10 BOOKS PER ORDER**



Prep Talk

by Russ McCarty

Greetings from the bone lab! Tempus fugit! (Or as they say: "Time flies like an arrow--fruit flies like a banana"). I have been writing this column for about five years now. When I first began the column, I supposed that readers would have specific questions about techniques, materials, and procedures, which I could then answer in the column, and which I could also use to focus my rambling stream of consciousness. Well--I received one question in five years. Needless to say, I've turned into an incurable rambler, but regardless of the lack of questions, this column is not facing extinction.

Speaking of things which defy extinction brings up the interesting, albeit controversial, subject of cryptozoology. Cryptozoology means the study of hidden animals, and as such, deals with sightings of animals which were thought to be extinct, or of new, hitherto unknown species. There even exists a Society of Cryptozoology which publishes the Journal of Cryptozoology. The journal has dealt with topics such as the Loch Ness monster of Scotland, M'embe Nkele, the brontosaurus reported in a lake in the Belgian Congo, Sasquatch, Big Foot, and the Wild Man of China. While some of their articles are more speculative than fact, there are enough genuine reports to make the journal truly interesting. For example, did you know that a small dwarf species of woolly mammoth survived until about 3000 BC on Wrangel Island in the Bering Sea between Siberia and Alaska? Or that dinosaurs may have survived into the early Tertiary in Australia and a few other places?...And that the supposedly extinct Tasmanian wolf, a canine-like predatory marsupial from Tasmania,

is still occasionally sighted? Keep an open mind. The coelacanth, a primitive fish thought to be extinct since the Cretaceous was discovered living in the waters off the coast of Madagascar in 1938. One exception to the rule opens up the possibility of others.

Recently, Barbara Toomey and Mark Rentz delivered a reasonably complete dugong skeleton to the prep lab. Mark, Barbara, and James Toomey excavated the specimen from the Cargill Mine several years ago and have graciously donated the specimen to the Florida Museum of Natural History. I might add that these amateurs did a superb job on the excavation of this specimen. Once they had uncovered the specimen in situ, they drew a sketch of the skeleton and recorded all pertinent data. Starting with the skull, plaster jackets were made of sections of the skeleton. Each jacket included three to four vertebrae, thus the jackets were of manageable size. Jackets were labeled and recorded on the sketch so that the preparator could look on the sketch and know exactly which vertebrae were in each jacket. This team put the professionals to shame.

Mark Rentz, who is associated with the Paleontological Society of Lee County and the Nature Center there, is also diving with Dr. Webb's crew on the Aucilla River Prehistory Project. Orlando's club, the Florida Fossil Hunters, who have helped out the museum on numerous occasions, are represented by five members on the Aucilla River project. Jody Barker, Joe Bryant, Jewel Pozefsky, Dean Sligh, and Terry McKibben are treading the murky waters of the Aucilla's distant past.

The good news for the Vertebrate Paleontology collection is that we finally have a new collection manager to replace Gary Morgan, who has been gone almost a year and a half. Gary's replacement is Marc Frank, who comes to us from the Mammal Collection of the Smithsonian. Marc is hard at work trying to process the backlog of donations and new specimens which have accumulated since Gary left. With Marc's skills in systematics and

organization, we should have one of the best collections in the country.

I am attending a week-long course in conservation and preservation of geological specimens. The course is held in San Diego, California, and will cover all types of fossils, stone artifacts, meteorites, folgerites, and other topics such as storage, radon-producing collections, and new techniques such as cat-scanning fossils. Sounds like fun to me. Of course, I will pass on any new information to the readers of the FPS Bulletin. One topic of special interest to me, and many of you readers, I'm sure, is preservation of wet specimens. Since so many fossils in Florida come from rivers, this is a problem for all of us, and one that I will address in the Fall issue.

Paleo Computer Stuff

I am pleased to report that the recently finished fossil database, called Faunmap, is now available. According to the Faunmap Working Group, Faunmap is an electronic database documenting the late Quaternary (Pleistocene) distribution of individual mammal species for seven different time periods during the last 40,000 years in the United States. It has been developed at the Illinois State Museum with support from the National Science Foundation. There is also a two-volume copy (690 pages total, including 305 pages of distribution maps) with an MS DOS compatible diskette of the database of encoded data from 2929 paleontological sites. The first volume provides a discussion of the structure of the database, definition of the codes, locality tables, bibliography, and cross-referenced geographic distributions of more than 150 species of the late Pleistocene. The database on the included disk is in delimited ASCII format.

The Faunmap publication is available from the Illinois State Museum. If you have Web access, there is some further information, as well as the ability to download an ASCII version of the database, at the following address:

<http://www.museum.state.il.us//research/faunmap>

For those of you with Gopher access, you may gopher to:

gopher.museum.state.il.us

and go down through "Research Programs". You may also receive further information on ordering the volume and database by sending an e-mail message to:

faunmap@museum.state.il.us

You will receive an automatically-produced file in return.

The Vertebrate Paleontology discussion list will move to another computer running under a slightly different list management software product. Current subscribers will be automatically changed over to the new system. For new people wishing to subscribe, send the e-mail message:

Subscribe VRTPALEO

Send this message to:

listproc@usc.edu

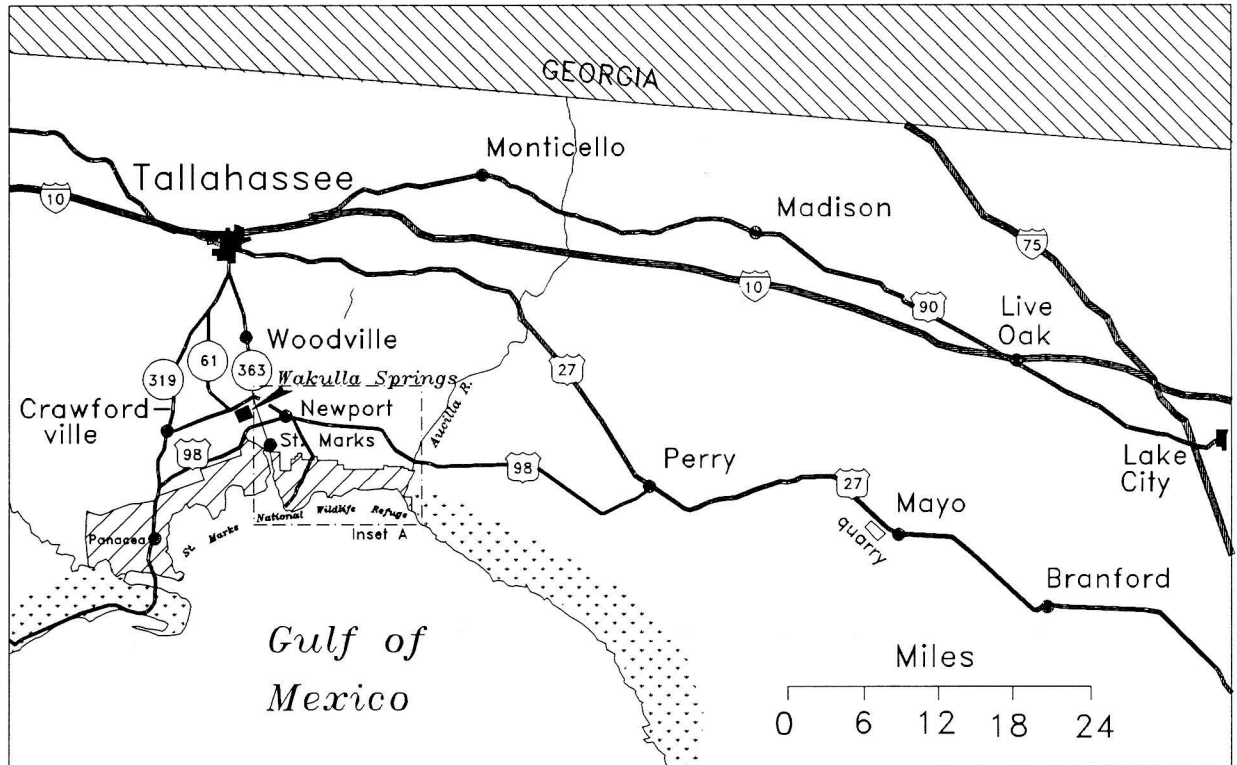
For those of you with access to the Web, there is a new homepage called *Artifacts Are Us*. Listed at this site are pages of artifacts for sale, from complete dinosaur skeletons to Badlands oreodonts. The address is:

<http://www.nis.net/cgi-bin/artifacts>

Questions, comments, suggestions? Contact Russ McCarty at the VP Prep Lab, care of the Florida Museum of Natural History, University of Florida, Gainesville, FL, 32611. Telephone: (904) 392-1721. E-mail: Cormac@flmnh.ufl.edu

F.P.S. Fall Meeting 1995

Saturday October 28 and Sunday October 29, 1995
 Wakulla Springs State Park
 St. Mark's National Wildlife Refuge

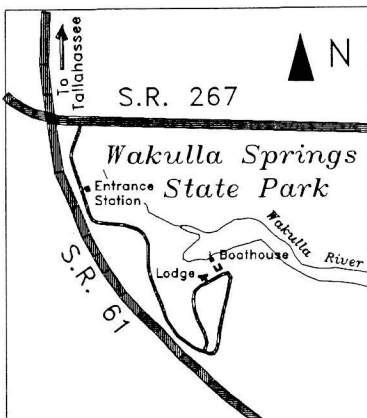


PROPOSED ITINERARY

Saturday October 28, 1995

Invertebrate Quarry Field Trip - Mayo, FL*	7:30 AM - 11:00 AM
Vertebrate Field Trip - To Be Determined	7:30 AM - 11:00 AM
Lunch on your own and travel to Wakulla Springs	11:00 AM - 2:00 PM

* Note: Meet at 7:30 AM at MacDonald's restaurant in Perry. If quarry ownership changes prior to meeting, the trip may be cancelled.



Wakulla Springs State Park, Wakulla County, Florida

Wakulla Springs, a 2,900 acre park where a wide variety of birds, fish, turtles, deer and alligators live in a protected area, is located 15 miles south of downtown Tallahassee on Florida Highway 267. The Florida Park Service offers glass bottom boat tours over the clear water of the 185-foot deep spring. Jungle boat tours take you far down river to view abundant wildlife and lush vegetation. You can also swim in the cool, refreshing waters of the Spring. An abundance of fish and a few fossilized mastodon bones can be seen in the spring (Collecting is not allowed!). Picnic areas including tables and grills are provided within the park.

Saturday - continued:

Presentations at Wakulla Springs Lodge: 2:00 PM - 5:00 PM

Dr. Steven Manchester, Florida Museum of Natural History, "Paleobotany of the Florida Panhandle"

Dr. Douglas Jones, Florida Museum of Natural History, "Paleomagnetism and Monarchs"

Tim Young, "Pleistocene Vertebrate Paleontology of the St. Marks River"

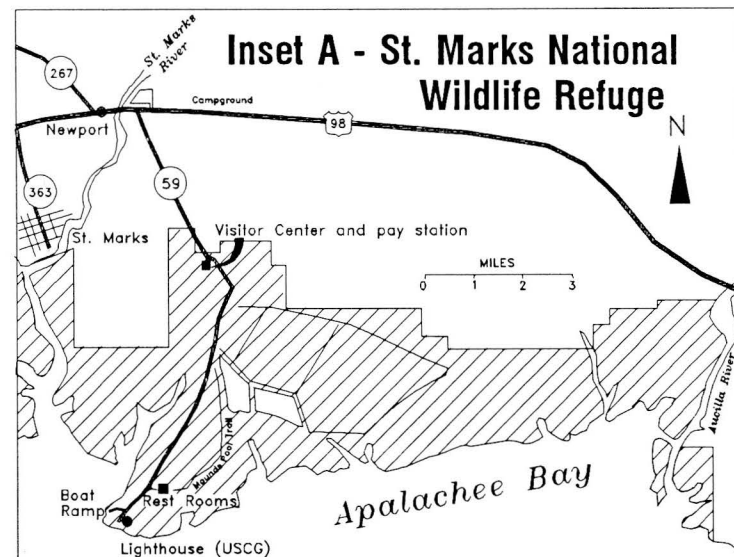
Frank Rupert, "Geology of the Eastern Florida Panhandle"

Banquet Dinner: 6:30 PM -7:30 PM, Wakulla Springs Lodge restaurant. Buffet includes two entree selections, two vegetables, tossed green salad, oven-warm rolls and butter, freshly brewed coffee (including decaffeinated), freshly brewed iced tea, and dessert (\$14.95 per person/children under 12 \$4.95). If you plan to attend the banquet, fill out attached buffet reservation form and return to Phil Whisler by **September 12, 1995**.

Guest Speaker: Tanya Van Hook, Department of Entomology, University of Florida, "Monarch Migration and the St. Mark's Wildlife Refuge"

Annual Auction: 7:45 PM - ????

Sunday, October 29, 1995 Butterfly watching at St. Marks National Wildlife Refuge



St. Marks National Wildlife Refuge

The office/visitor center is located down County Rd. 59, 3 miles south of the Newport fire tower on U.S. Highway 98. Entrance fee \$4.00 per vehicle. There are no overnight or eating establishments on the refuge, but picnic tables, drinking water and restrooms are available. In October, Monarch butterflies begin migrating through the Refuge on their way to their Mexican wintering grounds and Northern harriers can be seen hunting over refuge marshes. Viceroy, Queen, American Painted Beauty, Fritillary, and Buckeye butterflies are common. Purple iron weed, lantana and firewheel are a few wildflowers to be found. Birds, mammals, frogs and toads, snakes and alligators also abound. Bring your binoculars, and camera!!!!

Sunday's events:

Monarch Butterfly Migration: 6:30 AM at the Lighthouse.

Presentation by Tanya Van Hook

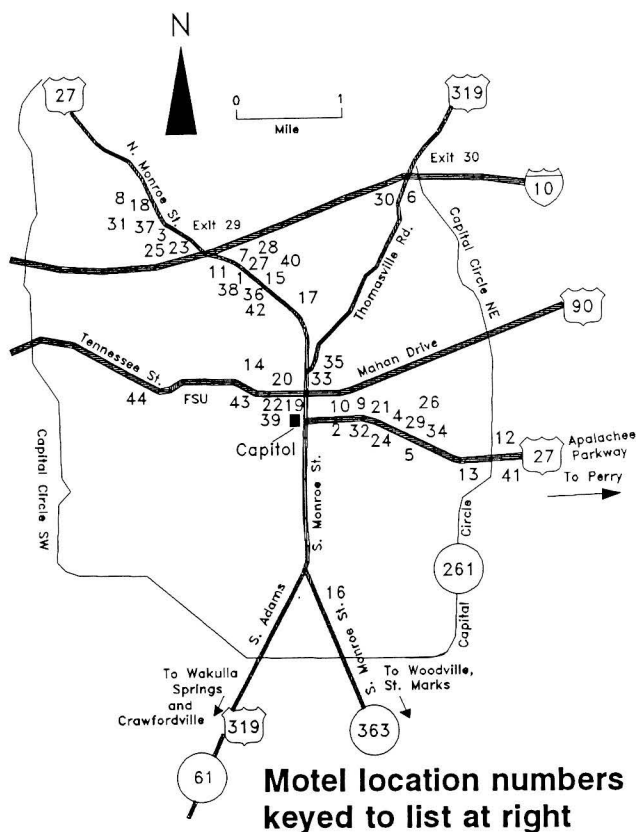
Slide Presentation at visitor's center

Self-Guided Nature Walks

Visit to Book Store for T-Shirts, Bags & Gifts

Lodging: Numerous motels are available in Tallahassee, 15 miles north of Wakulla Springs (see Tallahassee locator map). Other accommodations are sparsely scattered throughout the region. Many offer rather "rustic" accommodations. The best non-Tallahassee accommodations are at the historic Wakulla Springs Lodge, located within Wakulla Springs State Park. Rooms are limited and advance reservations are strongly suggested.

Tallahassee



TALLAHASSEE LODGINGS

Listed below are some of the motels in the Tallahassee area. Rates vary considerably. Most of the non-chain motels are older, and some are run down. Figure on a 15 to 20 mile drive to Wakulla Springs from Tallahassee.

- | | | |
|---|---|---|
| <ol style="list-style-type: none"> 1. American Inn, 2726 N. Monroe, (904) 386-5000. 2. Apalachee Motor Lodge, 809 Apalachee Pkwy, (904) 877-4143. 3. Best Inns, I-10 exit 29, 562-2378, 800-237-8466. 4. Best Western, 2016 Apalachee Pkwy, 656-6312. 5. Bowen Motel, 3200 Apalachee Pkwy, 877-4416. 6. Cabot Lodge, I-10 exit 30, 386-7500. 7. Cabot Lodge, I-10 exit 29, 386-8880. 8. Comfort Inn, I-10 exit 29, 562-7200. 9. Marriott Courtyard, 1018 Apalachee Pkwy, 222-8822. 10. Days Inn, 722 Apalachee Pkwy, 224-2181. 11. Days Inn, I-10 exit 30, 385-0136. 12. Days Inn, 3100 Apalachee Pkwy, 877-6121. 13. Dutch Inn, 2997 Apalachee Pkwy, 877-7813. | <ol style="list-style-type: none"> 14. Econo Lodge, 1350 W. Tennessee, 222-3219. 15. Econo Lodge, I-10 exit 29, 385-6155. 16. El Camino Motel, 3705 S. Monroe, 877-7810 (looks somewhat seedy). 17. Executive Suite, 522 Scotty Lane, off N. Monroe, 386-2121. 18. Hampton Inn, I-10 exit 29, 562-4300. 19. Hilton Inn, 101 S. Adams St., 681-2535. 20. Holiday Inn, 316 W. Tennessee, 222-8000. 21. Holiday Inn, 1302 Apalachee Pkwy., 877-3141. 22. Holiday Inn, 101 S. Adams, 224-5500. 23. Holiday Inn, I-10 exit 29, 562-2000. 24. Ramada Inn, Magnolia Dr. and Apalachee Pkwy, 877-3171. 25. Knights Inn, I-10 exit 29, 562-4700. 26. La Quinta Inn, 2850 Apalachee Pkwy, 878-5099. 27. La Quinta Inn, I-10 exit 29, 385-7172. 28. Las Casas Motor Inn, I-10 exit 29, 386-8286. | <ol style="list-style-type: none"> 29. Leisure Inn, 2020 Apalachee Pkwy., 877-4437. 30. Motel 6, 1481 Timberlane, (I-10 exit 30), 668-2600. 31. Motel 6, I-10 exit 29, 386-7878. 32. Motel 6, 1027 Apalachee Pkwy, 877-6171. 33. Prince Murat Motel, 745 N. Monroe, 224-3108. 34. Quality Inn, 2020 Apalachee Pkwy., 877-4437 (used to be Leisure Inn). 35. Radisson Hotel, 415 N. Monroe, 224-6000. 36. Ramada Inn, I-10 exit 29, 386-1027. 37. Red Roof Inn, I-10 exit 29, 843-7663. 38. Regal Inn, 2738 N. Monroe, 386-7878. 39. Sheraton, 101 S. Adams, 224-5000. 40. Shoney's Inn, I-10 exit 29, 386-8286. 41. Southland Motel, 3217 Apalachee Pkwy, 878-5835. 42. Super 8 Motel, I-10 exit 29, 386-8818. 43. Travelodge, 691 W. Tennessee, 224-8161. 44. Collegiate Village Inn, 2121 W. Tennessee St., 576-6121. |
|---|---|---|

Other area accommodations:

Wakulla Springs Lodge and Conference Center (904-224-5950). Weekend rates (Fri & Sat nights) Single or Double \$69.00. Additional person \$6.00.

St. Marks Motel - Has four rooms (904-925-6100).

Shell Island Fish Camp - On Wakulla River in St. Marks. Has cabins and trailers which are partially equipped (904-925-6226).

Shell Point Resort Motel, on Apalachee Bay at Shell Point, Wakulla County, (904) 926-7163.

Panacea Motel, Hwy. 98, Panacea, (904) 984-5421.

Posey Beyond the Bay Restaurant and Motel, Hwy 98, Panacea, (904) 984-0180.

Nearby campgrounds: The State maintains a self-service, "first come" campground at the juncture of SR 59 and U.S. Hwy 98 at Newport; be forewarned that during the October hunting season, this campground is popular with local hunters and may be full. Camping is also available at Ochlockonee River State Park (U.S. Hwy 319 about 4 miles south of Sopchoppy 904-925-6171). Lodging and restaurants are available in the towns of St. Marks (8 miles from Visitor Center), Shell Point and Spring Creek (20 miles from the Center) or Panacea (25 miles from the Center).

FPS Fall Meeting Reservation Form

Please return by September 12, 1995

Name _____

Address _____

City _____ State _____ Zip _____

Phone: Day _____ Night _____

For our planning purposes, please complete the following:

I (we) am planning to attend the following activities (circle Yes or No and indicate numbers in your party):

Fossil collecting Saturday, Oct. 28, at Mayo quarry Y N How many people _____

Possible vertebrate collecting trip Saturday Y N How many _____

Saturday talks at Wakulla Springs Y N How many _____

Butterfly trip Sunday morning at St. Marks NWR Y N How many _____

Buffet Reservation -Saturday evening, October 28, at Wakulla Springs:

(please write appropriate number in each blank)

_____ Adults X \$14.95 = _____

_____ Children under 12 yrs X \$4.95 = _____

Total amount to enclose _____

Please remit payment for meals with this form by **September 12, 1995**.

Make checks payable to: **Florida Paleontological Society**, and mail to:

Phil Whisler, Treasurer
Florida Paleontological Society
Florida Museum of Natural History
University of Florida
Gainesville, FL 32611



The Mammoth Site®

OF HOT SPRINGS, SOUTH DAKOTA, INC.

A NON-PROFIT ORGANIZATION

P.O. BOX 606

605-745-6017

HOT SPRINGS, SD 57747-0606

FAX 605-745-3038

MAMMOTH SITE PUBLICATIONS

- MB 1 Mammoths, Mol - Agenbroad - Mead; 18 pages 1993 paperback \$ 5.95. A brief introduction and overview of mammoths in the Northern Hemisphere
- MB 2 Mammoth Graveyard, Nelson; 24 pages (revised 1994) paperback \$5.95. Background information about the Mammoth Site, its relation to the past and significance to the future.
- MB 3 Megafauna & Man, Discovery of America's Heartland, Agenbroad - Mead - Nelson; 143 pages 1990 paperback \$15.00. Mammoth Site symposium volume, over 100 illustrations, and 13 tables.
- MB 4 North American Mammoths, an Annotated Bibliography 1940-1990, Agenbroad & Barton; 118 pages 1991, paperback \$12.50. Under one cover, references to the majority of published literature of the past fifty years for North American mammoths. More than 450 published references to NewWorld mammoths for the period 1942-1990.
- MB 5 Vegetation Cover and Environment of the "Mammoth Epoch" in Siberia, Ukraintseva; 309 pages 1993 paperback \$24.95. Looking at the Paleoecology and Paleoenvironment from the gut content and surrounding sediments from animals found in the Siberian permafrost.



MAMMOTH SITE VIDEOS

- MV 1 Mammoth Site Video, 27 minute VHS video 1989\$19.95
A great way to remember the Mammoth Site. Interviews with the people who "discovered" the first fossils, the landowner, and Dr. Larry Agenbroad, the site's Principal Investigator. Explains how the sinkhole was formed, and why prehistoric mammoths and other animals became entrapped. A great educational experience for the entire family.
- MV 2 Story of the Mammoth, 20 minute VHS video 1990\$14.95
Join Monte Mammoth as he escorts 5 students on a 20-minute tour of the Mammoth Site. Includes a visit to the Mammoth Site laboratory, screenwashing area and field work. Great for school children, grades K-7th.
- MV 3 Mammoth Site Tour, 30 minute VHS video 1994\$14.95
A guided tour of the Mammoth Site by one of the interpreters, with detailed background information by Dr. Larry Agenbroad and Dr. Jim Mead, Co-Principal Investigators at the Mammoth Site.



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605-745-6017
FAX 605-745-3038

ADULT BOOKS

- After The Ice Age: The Return of Life, Pielou; 366 pages, 1991, paperback \$13.95, hardback \$24.95
- Americans Before Columbus: Ice Age Origins, Carlisle editor; 123 pages, 1987 paperback \$15.95
- African Elephant (the), (Twilight In Eden), DiSilvestro; 206 pages, 1991 hardback \$34.95
- Agate Basin Site (the), Frison & Stanford; 403 pages, 1982 hardback \$59.00
- Audubon Society Nature Guides - Grasslands, Brown; 606 pages, 1989 paperback \$16.95
- Brain Tanning the Sioux Way, Belitz; 16 pages, 1991 \$2.00
- Blue Babe, Guthrie; 31 pages, 1988 paperback \$7.95
- Colby Mammoth Site (the), Frison & Todd; 238 pages, 1986 hardback \$35.00
- Dictionary of Geological Terms 3rd Ed., American Geological Inst. \$12.95
- Dinosaur Digs (Places Where You Can Discover Prehistoric Creatures), Will & Read;
115 pages, 1992 paperback \$18.95
- Elephants (Majestic Creatures of the Wild), Shoshani; 240 pages, 1992 hardback \$40.00
- Elephants (The Deciding Decade), Orenstein; 160 pages, 1991 hardback \$35.00
- Elephants (Endangered Species), Jackson; 125 pages, 1990 hardback \$9.95
- Elephants of Africa, Bosman-Hail-Martin; 175 pages, 1989 hardback \$44.95
- Elephant Memories, Moss; 336 pages, 1988 paperback \$10.95
- From Kostenki To Clovis, Soffer & Praslov; 334 pages, 1993 hardback \$29.50
- Frozen Fauna of the Mammoth Steppe, Guthrie; 323 pages, 1990, paperback \$16.95, hardback \$40.00
- Handbook of Paleo-preparation Techniques, Converse; 109 pages, 1984 paperback \$12.50
- How Nature Works, Burne; 192 pages, 1991 hardback \$24.00
- Hudson-Meng Site, (the), Agenbroad, 230 pages, 1978 paperback \$7.95
- Ice Age Mammals of the Colorado Plateau, Nelson; 24 pages, 1990 paperback \$4.95
- Mammal Remains From Archaeological Sites, Olsen; 162 pages, 1990 fifth printing
paperback \$18.95
- Mammalian Osteology, Gilbert; 428 pages, 1990 second printing paperback \$30.00
- Mammoths, Mastodons, Elephants, Haynes; 413 pages, 1991 paperback \$27.50, hardback \$69.50
- Natural History of the Black Hills and Badlands, Froiland; 225 pages, 1990 paperback \$10.00
- Old Bones and Serpent Stones, Skwara; 301 pages, 1992 paperback \$14.95
- Paleotechniques, Spencer; 358 pages, 1989 paperback \$29.95
- Pictorial Guide to Fossils (A), Case; 514 pages, 1982 hardback \$49.50
- Pleistocene Mammals of North America, Kurten & Anderson; 442 pages, 1980 hardback \$86.00
- Prehistoric Hunters of the Black Hills, Cassells; 104 pages, 1986 paperback \$6.95
- Prehistoric Hunters of the High Plains, Frison; 532 pages, 1991 hardback \$64.95
- Quaternary Extinctions, Martin; 892 pages, 1984 paperback \$40.00
- Vertebrate Paleontology & Evolution, Carroll; 698 pages, 1988 hardback \$57.95

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(UP to \$10.00 \$4.00) (\$10.01 - \$20.00 \$5.00) (\$20.01 - \$40.00 \$6.00)

(\$40.01 - \$60.00 \$7.00) (\$60.01 - \$80.00 \$8.00) (80.01-\$100.00 \$9.00)

(OVER \$100.00 ACTUAL SHIPPING COSTS)

SD Tax

(If shipped to SD Address (6%))



FLORIDA PALEONTOLOGICAL SOCIETY, INC. APPLICATION FOR MEMBERSHIP

Mail completed form to: Florida Paleontological Society
Florida Museum of Natural History
University of Florida
Gainesville, FL 32611

NEW _____ RENEWAL _____ MEMBER NUMBER (From Label) _____

NAME _____
ADDRESS _____
CITY _____
STATE _____ ZIP CODE _____ TELEPHONE () - -

TYPE OF MEMBERSHIP

- | | |
|--------------------------------------|--------------------------------------|
| 1. INDIVIDUAL ACTIVE (\$15.00) _____ | 2. SUBSCRIBER (\$15.00) _____ |
| 3. INSTITUTIONAL (\$15.00) _____ | 4. GIFT (Mark Type) _____ |
| 5. FAMILY (3 or more. \$25.00) _____ | 6. COUPLES (\$20.00) _____ |
| 7. SUSTAINING (\$50.00) _____ | 8. ASSOCIATE (Under 18 \$5.00) _____ |

FAMILY AND COUPLES PLEASE LIST NAMES OF ALL APPLICANTS IF NEW.
PLEASE COMPLETE PERSONAL FACT SHEET BELOW IF NEW OR CHANGES
HAVE OCCURRED SINCE PREVIOUS YEAR.

NOTE!!! MEMBERSHIPS ARE FOR A CALENDAR YEAR AND ARE DUE NO LATER THAN
JANUARY 1 EACH YEAR! PLEASE RENEW ON TIME!

BIOGRAPHICAL FACT SHEET

1. NUMBER OF YEARS OF INTEREST IN PALEONTOLOGY _____
2. WHICH BEST DESCRIBES YOUR STATUS: COLLECTOR _____ OCCASIONAL DEALER _____
FULL TIME DEALER _____ PROFESSIONAL POSITION _____ JUST STARTING _____
3. PRIMARY AREAS OF INTEREST:

	<u>VERTEBRATE</u>	<u>INVERTEBRATE</u>	<u>BOTANY</u>	<u>MICRO</u>
PLEISTOCENE	_____	_____	_____	_____
PLIOCENE	_____	_____	_____	_____
MIOCENE	_____	_____	_____	_____
OLIGOCENE	_____	_____	_____	_____
EOCENE	_____	_____	_____	_____
EARLIER	_____	_____	_____	_____

4. LIST ANY PREFERRED TYPES (Horses, Sloths, Echinoids etc.) _____

5. LIST ANY PUBLISHED WORKS ON PALEONTOLOGICAL SUBJECTS.

6. DO YOU BUY _____ TRADE _____ FIND _____ FOSSILS?

7. LIST ANY SKILLS OR ABILITIES THAT MAY BE OF USE TO THE SOCIETY'S
PROJECTS (RESTORATION, PREPARATION, COMPUTER USE, GRAPHICS SKILLS,
SPEAKING, PHOTOGRAPHY, PUBLIC RELATIONS, WRITING, FUND RAISING ETC.)

8. LIST ANY UNUSUAL SPECIMENS FOUND, CIRCUMSTANCES UNDER WHICH THEY
WERE LOCATED AND THEIR DISPOSITION.

PLEASE USE AN ADDITIONAL SHEET IF REQUIRED! THANK YOU!

FLORIDA PALEONTOLOGICAL SOCIETY, INC.

As stated in the Articles of Incorporation, "The purposes of this Corporation shall be to advance the science of Paleontology, especially in Florida, to disseminate knowledge of this subject and to facilitate cooperation of all persons concerned with the history, stratigraphy, evolution, ecology, anatomy, and taxonomy of Florida's past fauna and flora. The Corporation shall also be concerned with the collection and preservation of Florida fossils." (Article III, Section 1).

CODE OF ETHICS

ARTICLE IX

- Section 1. Members of the Florida Paleontological Society, Inc., are expected to respect all private and public properties.
- Section 2. No member shall collect without appropriate permission on private or public properties.
- Section 3. Members should make a sincere effort to keep themselves informed of laws, regulations, and rules on collecting on private or public properties.
- Section 4. Members shall not use firearms, blasting equipment, or dredging apparatuses without appropriate licenses and permits.
- Section 5. Members shall dispose of litter properly.
- Section 6. Members shall report to proper state offices any seemingly important paleontological and archaeological sites.
- Section 7. Members shall respect and cooperate with field trip leaders or designated authorities in all collecting areas.
- Section 8. Members shall appreciate and protect our heritage of natural resources.
- Section 9. Members shall conduct themselves in a manner that best represents the Florida Paleontological Society, Inc.

ANNUAL DUES for the FPS are \$5.00 for Associate Membership (persons under age 18) and \$15.00 for Full Membership (persons over age 18) and Institutional Subscriptions. Couples may join for \$20.00, and Family memberships (3 or more persons) are available for \$25.00. A Sustaining membership is also available for \$50. Persons interested in FPS membership need only send their names, addresses, and appropriate dues to the Secretary, Florida Paleontological Society, Inc., at the address inside the front cover. Please make checks payable to the FPS. Members receive a membership card, the FPS newsletter, the Papers in Florida Paleontology, and other random publications entitled to members.

NEWSLETTER POLICY: All worthy news items, art work, and photographs related to paleontology and various clubs in Florida are welcome. The editors reserve the right not to publish submissions and to edit those which are published. Please address submissions to the Editors, Florida Paleontological Society, Inc. Newsletter, at the address inside the front cover.